

Claim 1 (Original): An image forming apparatus, comprising:

- an image supporting body that supports a toner image;
- an exposure part that exposes the image supporting body;
- a transfer part that transfers the toner image formed on the image supporting body onto a recording medium;
- a fixing device that fixes the toner image transferred onto the recording medium to the recording medium;
- a control part;
- a power supply part; and
- a blowing unit that generates an air flow,

wherein the control part, the power supply part, and the exposure part are disposed at an upstream side of the air flow generated by the blowing unit, and the fixing device is disposed at a downstream side.

Claim 2 (Original): An image forming apparatus according to claim 1, wherein the blowing unit includes an air inlet, an air outlet, and a blowing fan disposed between the air outlet and the air inlet,

- at least one of the control part, the power supply part and the exposure part is disposed at an upstream side of the blowing fan, and
- the fixing device is provided at a downstream side of the blowing fan.

Claim 3 (Original): An image forming apparatus according to claim 2, wherein the blowing unit further includes an exhaust fan, and the exhaust fan is disposed between the fixing device and the air outlet.

Claim 4 (Original): An image forming apparatus according to claim 2, further comprising an image forming apparatus main body that houses the image supporting body, the exposure part, the transfer part, the fixing device, the control part and the power supply part, wherein the blowing fan is disposed apart from a contour of the image forming apparatus main body.

Claim 5 (Currently Amended): An image forming apparatus according to ~~claims~~ claim 1, wherein the control part, the power supply part, and the exposure part are disposed in parallel with respect to the air flow generated by the blowing unit.

Claim 6 (Currently Amended): An image forming apparatus according to ~~claims~~ claim 1, wherein at least one of the control part and the power supply part is provided above the exposure part.

Claim 7 (Canceled)

Claim 8 (Currently Amended): An image forming apparatus according to claim 7 11, wherein the first heat source is a power supply that supplies electric power to the image forming apparatus.

Claim 9 (Currently Amended): An image forming apparatus according to claim 7 11, wherein the first heat source is a control part that controls the image forming apparatus.

Claim 10 (Canceled)

Claim 11 (Currently Amended): An image forming apparatus, comprising:  
a first heat source that generates heat when an image is formed;  
a blowing unit that sends air heated by the first heat source as an air flow and the  
blowing unit is disposed inside the image forming apparatus and at a downstream side of  
the first heat source;  
an exhaust part that exhausts the air flow sent by the blowing unit to an outside of  
the image forming apparatus;  
an air inlet that takes in air from the outside of the image forming apparatus and is  
disposed on an opposite side of the blowing unit with respect to the first heat source; and

~~An image forming apparatus according to claim 10, further comprising~~ an exposure part that irradiates light and an image supporting body that forms a latent image by the light irradiated by the exposure part,

wherein the first heat source is the exposure part.

Claim 12 (Original): An image forming apparatus according to claim 11, wherein the exposure part includes an enclosure and a semiconductor laser that generates light, the enclosure has plural opening parts of the enclosure, and the air inlet is disposed in a vicinity of the opening part.

Claim 13 (Currently Amended): An image forming apparatus, comprising:  
a first heat source that generates heat when an image is formed;  
a blowing unit that sends air heated by the first heat source as an air flow and the  
blowing unit is disposed inside the image forming apparatus and at a downstream side of  
the first heat source;  
an exhaust part that exhausts the air flow sent by the blowing unit to an outside of  
the image forming apparatus; and

~~An image forming apparatus according to claim 7, further comprising~~ a process cartridge that is disposed between the blowing unit and the exhaust part and performs an electrophotographic process to form the image, and

an air passage that is constructed between the process cartridge and a housing of the image forming apparatus, and allows passage of the air flow.

Claim 14 (Original): An image forming apparatus according to claim 13, further comprising a sheet transporting passage between the exhaust part and the process cartridge,

wherein the sheet transporting passage is provided with vent holes that allow passage of the air flow.

Claim 15 (Original): An image forming apparatus according to claim 13, further comprising a fixing device in a vicinity of the process cartridge,

wherein the process cartridge includes a shutter that is moved, when the process cartridge is mounted in the image forming apparatus, to a position where radiant heat of the fixing device is shut off.

Claim 16 (Original): An image forming apparatus according to claim 14, wherein an opposite outer surface of the housing of the image forming apparatus constituting the air passage is an eject part where a sheet transported from the sheet transporting passage is ejected.

Claim 17 (Original): A cooling method for an image forming apparatus in which a power supply device and a control device are provided between a first air inlet and a blowing fan, an optical writing device is provided between a second air inlet and the blowing fan, and a fixing device is provided between the blowing fan and an air outlet, comprising

receiving air having cooled the power supply device, the control device and the optical writing device into the blowing fan,

blowing air as an air flow to a peripheral space positioned around the fixing device, cooling air of the peripheral space by the air flow blown by the blowing fan, and exhausting the air through the air outlet.